

Appln No. 10/535,317  
Amdt date October 8, 2008  
Reply to Office action of April 8, 2008

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Please cancel claims 1-5, 14, 21, 23-24, 26, 28, 30, 32, and 35; amend claims 6-13, 15, 22, 27, and 33-34; and add new claim 36.

1. (Canceled).
2. (Canceled).
3. (Canceled).
4. (Canceled).
5. (Canceled).
6. (Currently Amended) The glass forming alloy described in claim ~~[[1]]~~ 36 wherein the alloy has a  $\Delta T_{sc}$  of more than 40 °C.
7. (Currently Amended) The glass forming alloy described in claim ~~[[1]]~~ 36 wherein the alloy has a Vickers hardness greater than 700 Kg/mm<sup>2</sup>.
8. (Currently Amended) The glass forming alloy described in claim ~~[[1]]~~ 36 wherein the alloy has a yield strength of greater than 2.5 GPa.
9. (Currently Amended) The glass forming alloy described in claim ~~[[1]]~~ 36 wherein the alloy has a Young's modulus of greater than 140 GPa.

10. (Currently Amended) The glass forming alloy described in claim [[1]] 36 wherein the alloy has a ratio of glass transition temperature to liquidus temperature of around 0.6 or more.

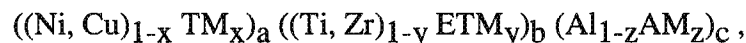
11. (Currently Amended) The glass forming alloy described in claim [[1]] 36 wherein the alloy is substantially amorphous.

12. (Currently Amended) The glass forming alloy described in claim [[1]] 36 wherein the alloy contains a ductile crystalline phase precipitate.

13. (Currently Amended) The glass forming alloy described in claim [[1]] 36 wherein the critical cooling rate is less than about 1,000 °C/sec.

14. (Canceled).

15. (Currently Amended) A glass forming alloy having a composition given by:



where a is in the range of ~~from 27~~ 34 to 58, b in the range of 21 to 59, c is in the range of 5 to 17 in atomic percentages; ETM is an early transition metal selected from the group of Hf, Nb, Ta, V, Cr, Mo, and W; TM is a transition metal selected from the group of Mn, Fe, and Co; and AM is an additive material selected from the group of Si, Sn, Ge, B, and Sb; and

wherein the following constraints are given for the x, y and z fraction: x is less than 0.3, y is less than 0.3, z is less than 0.3, and the sum of x, y and z is less than about 0.5, and under the further constraint that the content of Ti content is more than 8 atomic percent, Zr content is more than 13 atomic percent and Cu content is less than 17 atomic percent, and wherein Ni is present in an amount ranging from 34 to 46 atomic percent.

16. (Original) The glass forming alloy described in claim 15 wherein a is in the range of from 39 to 47, b in the range of 42 to 48, c is in the range of 9 to 11 in atomic percentages; and x is less than 0.1, y is less than 0.1, z is less than 0.1, and the sum of x, y and z is less than

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about 0.2; and the content of Ti content is more than 15 atomic percent, Zr content is more than 27 atomic percent, and Cu content is from about 3 to 7 atomic percentage.

17. (Original) The glass forming alloy described in claim 15 wherein ETM is an early transition metal selected from the group of Hf and Nb; TM is Co; and AM is an additive material selected from the group of Sn and Si.

18. (Original) The glass forming alloy described in claim 16 wherein ETM is an early transition metal selected from the group of Hf and Nb; TM is Co; and AM is an additive material selected from the group of Sn and Si.

19. (Original) The glass forming alloy described in claim 15 wherein the critical cooling rate is less than about 1,000 °C/sec.

20. (Original) The glass forming alloy described in claim 16 wherein the critical cooling rate is less than about 1,000 °C/sec.

21. (Canceled).

22. (Currently Amended) A glass forming alloy consisting essentially of an alloy having a composition given by:  
 $\text{Ni}_{100-a-b-c-d} \text{Ti}_a \text{Zr}_b \text{Al}_c \text{Cu}_d$ , where  $15 < a < 18$ ,  $27 < b < 30$ ,  $9 < c < 11$ ,  $3 < d < 7$ , and  $a+b+c+d$  is in the range of from 58 to 61.

23. (Canceled).

24. (Canceled).

25. (Original) The glass forming alloy described in claims 22 wherein the critical cooling rate is less than about 1,000 °C/sec.

26. (Canceled).

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27. (Currently Amended) A three dimensional article made from the alloy of claim [[1]] 36 having an amorphous phase.

28. (Canceled).

29. (Original) A three dimensional article made from the alloy of claim 15 having an amorphous phase.

30. (Canceled).

31. (Original) A three dimensional article made from the alloy of claim 22 having an amorphous phase.

32. (Canceled).

33. (Currently Amended) [[A]] The glass forming alloy of claim 15 having a composition of  $\text{Ni}_{40}\text{Ti}_{16}\text{Zr}_{28}\text{Al}_{10}\text{Cu}_6$ .

34. (Currently Amended) [[A]] The glass forming alloy of claim 15 having a composition of  $\text{Ni}_{40}\text{Ti}_{17}\text{Zr}_{28}\text{Al}_{10}\text{Cu}_5$ .

35. (Canceled).

36. (New) A glass forming alloy consisting essentially of an alloy having a composition given by:

$\text{Ni}_{100-a-b-c-d}\text{Ti}_a\text{Zr}_b\text{Al}_c\text{Cu}_d$ , where  $15 < a < 18$ ,  $27 < b < 30$ ,  $9 < c < 11$ , and  $3 < d < 7$ .